

| INFORMATION DISCLOSURE CITATION<br>(Use several sheets if necessary)                                                                                                                                                                      |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ATTY DOCKET NO.<br>ITO.0508US (P12501) | SERIAL NO.<br>09/975,163 |          |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------|----------|----------------------------|
|                                                                                                                                                                                                                                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | APPLICANT(S):<br>DANIEL XU             |                          |          |                            |
|                                                                                                                                                                                                                                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FILING DATE:<br>October 11, 2001       | GROUP ART UNIT:<br>2823  |          |                            |
|                                                                                                                                                                                                                                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | U.S. PATENT DOCUMENTS                  |                          |          |                            |
| *EXAMINER INITIAL                                                                                                                                                                                                                         | DOCUMENT NUMBER | DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NAME                                   | CLASS                    | SUBCLASS | FILING DATE IF APPROPRIATE |
| A.                                                                                                                                                                                                                                        |                 | NOV 03 2003                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        |                          |          |                            |
| B.                                                                                                                                                                                                                                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |
| C.                                                                                                                                                                                                                                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |
| D.                                                                                                                                                                                                                                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |
| FOREIGN PATENT DOCUMENTS                                                                                                                                                                                                                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |
|                                                                                                                                                                                                                                           | DOCUMENT NUMBER | DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COUNTRY                                | CLASS                    | SUBCLASS | TRANSLATION<br>YES      NO |
| E.                                                                                                                                                                                                                                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |
| F.                                                                                                                                                                                                                                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |
| G.                                                                                                                                                                                                                                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |
| H.                                                                                                                                                                                                                                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)                                                                                                                                                                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |
| <i>BL</i>                                                                                                                                                                                                                                 | I.              | Hwang, Y.N., Hong, J.S., Lee, S.H., Ahn, S.J., Jeong, G.T., Koh, G.H., Kim, H.J., Jeong, W.C., Lee, S.Y., Park, J.H., Ryoo, K.C., Horii, H., Ha, Y.H., Yi, J.H., Cho, W.Y., Kim, Y.T., Lee, K.H., Joo, S.H., Park, S.O., Jeong, U.I., Jeong, H.S. and Kim, Kinam, "Completely CMOS-Compatible Phase-Change Nonvolatile RAM Using NMOS Cell Transistors," presented at 2003 19 <sup>th</sup> IEEE Non-Volatile Semiconductor Memory Workshop, Monterey, California, February 26-20, 2003 |                                        |                          |          |                            |
| <i>BL</i>                                                                                                                                                                                                                                 | J.              | Ha, Y.H., Yi, J.H., Horii, H., Park, J.H., Joo, S.H., Park, S.O., Chung, U-In and Moon, J.T., "An Edge Contact Type Cell for Phase Change RAM Featuring Very Low Power Consumption," presented at IEEE 2003 Symposium on VLSI Technology, Kyoto, Japan, June 12-14, 2003                                                                                                                                                                                                                |                                        |                          |          |                            |
| <i>BL</i>                                                                                                                                                                                                                                 | K.              | Hwang, Y.N., Hong, J.S., Lee, S.H., Ahn, S.J., Jeong, G.T., Koh, G.H., Oh, J.H., Kim, H.J., Jeong, W.C., Lee, S.Y., Park, J.H., Ryoo, K.C., Horii, H., Ha, Y.H., Yi, J.H., Cho, W.Y., Kim, Y.T., Lee, K.H., Joo, S.H., Park, S.O., Chung, U.I., Jeong, H.S. and Kim, Kinam, "Full Integration and Reliability Evaluation of Phase-change RAM Based on 0.24 mm-CMOS Technologies," presented at IEEE 2003 Symposium on VLSI Technology, Kyoto, Japan, June 12-14, 2003                   |                                        |                          |          |                            |
| <i>BL</i>                                                                                                                                                                                                                                 | L.              | Horii, H., Yi, J.H., Park, J.H., Ha, Y.H., Baek, I.G., Park, S.O., Hwang, Y.N., Lee, S.H., Kim, Y.T., Lee, K.H., Chung, U-In and Moon, J.T., "A Novel Cell Technology Using N-doped GeSbTe Films for Phase Change RAM," presented at IEEE 2003 Symposium on VLSI Technology, Kyoto, Japan, June 12-14, 2003                                                                                                                                                                             |                                        |                          |          |                            |
|                                                                                                                                                                                                                                           | M.              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |
|                                                                                                                                                                                                                                           | N.              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |
|                                                                                                                                                                                                                                           | O.              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |
| EXAMINER<br><i>Brook Kebode</i>                                                                                                                                                                                                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DATE CONSIDERED<br><i>6/1/2004</i>     |                          |          |                            |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                          |          |                            |